Amendments to the Claims

Claims 1-36 (Cancelled).

37) (New) A method of making a hybrid *Lycopersicon* plant expressing flavonol in the peel and flesh of the fruit of said plant by crossing a wild *Lycopersicon* species that expresses *CHI* in the peel and that expresses genes of the flavonol biosynthetic pathway in the flesh with a *L. esculentum* plant to produce said hybrid plant.

38) (New) The method of making a hybrid *Lycopersicon* plant according to claim 37 further comprising the step of screening *Lycopersicon* accessions for expression of *CHI* in the peel and/or for expression of one or more of the genes of the flavonol biosynthetic pathway in the flesh.

39) (New) The method of making a hybrid *Lycopersicon* plant according to claim 38 and, wherein said *Lycopersicon* species selected for crossing with a *L. esculentum* plant are *L. chilense* or *L. pennellii*, or any other wild tomato species that expresses genes of the flavonol biosynthetic pathway in the flesh and *CHI* in the peel of said fruit.

40) (New) The method of making a hybrid *Lycopersicon* plant according to claim 39, wherein the accessions selected for crossing are LA1963, LA2884, and LA1926.

41) (New) A hybrid *Lycopersicon* plant produced by the method of claim 37.

42) (New) A hybrid *Lycopersicon* plant produced by the method of claim 40.

43) (New) A hybrid *Lycopersicon* plant produced by the method of claim 40, wherein the accession chosen for crossing is LA1926.

44) (New) A hybrid *Lycopersicon* plant, wherein the flavonol content in the fruit flesh of said plant is greater than 0.5 µg/mgdwt.

45) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than 1.0 µg/mgdwt.

46) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than 1.5 µg/mgdwt.

47) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than approximately 2 µg/mgdwt.

48) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in the peel of the fruit is at least approximately 5 µg/mgdwt.

49) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein said flavonol content in the peel of the fruit is at least approximately 10 µg/mgdwt.

50) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein said flavonol content in the peel of the fruit is at least approximately 17 µg/mgdwt.

51) (New) A seed of said *Lycopersicon* plant of claim 44.

52) (New) A fruit of said *Lycopersicon* plant of claim 44.

53) (New) A *Lycopersicon* plant, or parts thereof, produced by growing the seed of claim 51.